12179-P103US PATENT

## LARGE AREA ELECTRON SOURCE

## **ABSTRACT**

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By using a large area cathode, an electron source can be made that can irradiate a large area more uniformly and more efficiently than currently available devices. The electron emitter can be a carbon film cold cathode, a microtip or some other emitter. It can be patterned. The cathode can be assembled with electrodes for scanning the electron source.